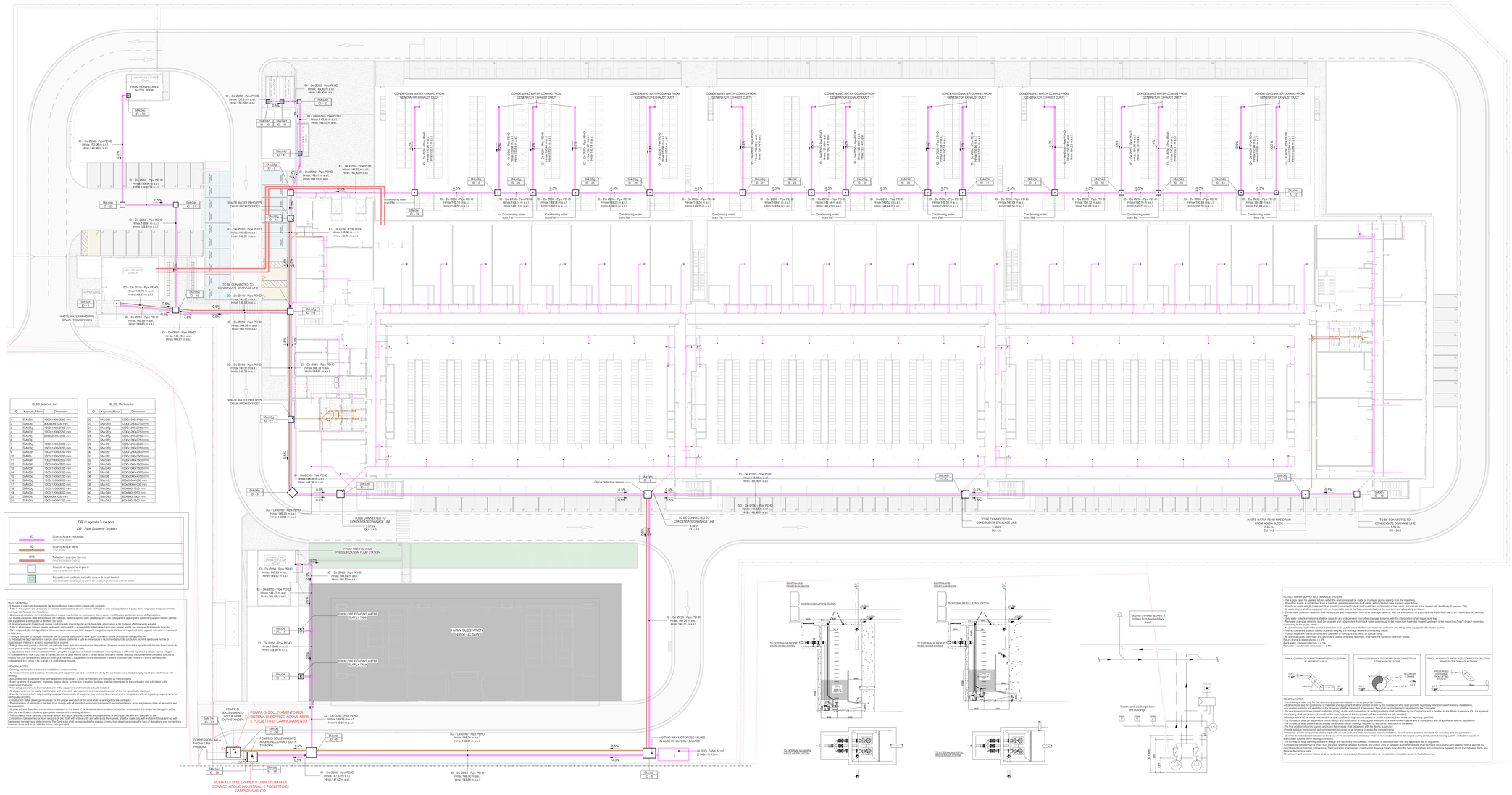

ID_SD_Manhole list		
ID	Keyword_Mirror	Dimension
1	SMA-05F	1000x1000x2050 mm
2	SMA-05G	1000x1000x2050 mm
3	SMA-05Q	1200x1200x2750 mm
4	SMA-05P	1000x1000x2050 mm
5	SMA-05L	2000x2000x4000 mm
6	SMA-05J	1000x1000x2750 mm
7	SMA-05K	1200x1200x3000 mm
8	SMA-05Q	1200x1200x3000 mm
9	SMA-06N	1500x1500x3750 mm
10	SMA-06=	1200x1200x2500 mm
11	SMA-04F	1000x1000x2500 mm
12	SMA-06P	1000x1000x2750 mm
13	SMA-06N	1200x1200x2750 mm
14	SMA-06N	1500x1500x2750 mm
15	SMA-06N	1500x1500x2750 mm
16	SMA-05Q	1200x1200x3000 mm
17	SMA-05Q	1200x1200x3000 mm
18	SMA-05Q	1200x1200x3000 mm
19	SMA-05Q	1200x1200x3000 mm
20	SMA-06C	900x900x1500 mm
21	SMA-04H	1000x1000x1750 mm

ID_SD_Manhole list		
ID	Keyword_Mirror	Dimension
22	SMA-04H	1000x1000x1750 mm
23	SMA-04H	1000x1000x1750 mm
24	SMA-05Q	1200x1200x2750 mm
25	SMA-05Q	1200x1200x2750 mm
26	SMA-05Q	1200x1200x2750 mm
27	SMA-05Q	1200x1200x2750 mm
28	SMA-05Q	1200x1200x2750 mm
29	SMA-05Q	1200x1200x2750 mm
30	SMA-05F	1200x1200x2500 mm
31	SMA-05F	1200x1200x2500 mm
32	SMA-04H	1000x1000x1500 mm
33	SMA-04H	1000x1000x1500 mm
34	SMA-04H	1000x1000x1500 mm
35	SMA-06L	2000x2000x4250 mm
36	SMA-06L	2000x2000x4250 mm
37	SMA-06C	900x900x1500 mm
38	SMA-06C	900x900x1500 mm
39	SMA-06C	900x900x1500 mm
40	SMA-04H	800x800x1250 mm
41	SMA-04H	800x800x1250 mm
42	SMA-04H	800x800x1500 mm

DR - Legenda Tubazioni

DR - Pipe Systems Legend

ID	Scarico Acque Industriali *Industrial Water*	
SD	Scarico Acque Nere *Sewer*	
HHS	Tubazione scambio termico *Heat exchanger pipings*	
	Pozzetti di ispezione impianti *Plant inspection wells*	
	Pozzetto con cestifiltro raccolta acque di locali tecnici *Manhole with drainage system for collecting technical rooms water*	

NOTE GENERALI:
- Quanto indicato esclusivamente per le installazioni meccaniche oggetto del contratto.
- Tutte le misurazioni e le descrizioni di materiali e attrezzature esistenti verificate in loco dall'appaltatore, il quale dovrà segnalare tempestivamente eventuali interferenze con l'installato.
- Le tubazioni, le apparecchiature e le canalizzazioni dovrà essere rinforzate, se necessario, dovrà essere modificata e spostata a cura dell'appaltatore.
- Le reali collocazioni delle attrezzature, dei materiali, delle tubazioni, delle canalizzazioni e dei collegamenti agli impianti esistenti dovranno essere definite in fase di esecuzione dei lavori, secondo le prescrizioni della D.L.
- Il dimensionamento finale dovrà essere conforme alle specifiche dei produttori delle attrezzature e dei materiali effettivamente installati.
- Le ditte dovranno eseguire sopralluoghi preventivi per la verifica delle interferenze tra le opere da realizzare e le strutture esistenti indicate.
- Dalla responsabilità dell'appaltatore dimensionamento e posizionamento tutti i supporti, sospesi, staffe (fisse nei tragitti di tutti i requisiti normativi in materia di antisismica.
- Il fornitore dovrà eseguire il dettaglio necessari per la corretta realizzazione delle opere (dovranno essere predisposti dall'appaltatore.
- L'installazione degli elementi in campo deve essere conforme a tutte le prescrizioni e raccomandazioni dei produttori, nonché alle buone norme di ingegneria in materia di acustica e preservazione incendi.
- Prima della posa in opera, la D.L. dovrà essere informata della documentazione disponibile, dovranno essere mostrati e approfondirti durante lavacuzione dei lavori, previa verifica degli impianti e adeguati alleer delle opere di tratto.
- L'appaltatore dovrà eseguire tutte le prove richieste, in progetto o segnalate eventuali inesattezze, incongruenze o difformità rispetto a quanto trovato o leggi, regolamenti e prescrizioni delle autorità preposte, dovranno essere segnalate alla D.L. prima dell'esecuzione delle opere, pena l'esecuzione a sua cura e spese di quanto non conforme.
- L'appaltatore dovrà fornire tutti i materiali, i prodotti e i materiali necessari per l'esecuzione dei lavori, secondo le prescrizioni della D.L. e dei collaudatori. Le materie e le opere dovranno essere di buona qualità e rispondenti alle prescrizioni del presente capitolato e alle norme di legge e regolamenti. L'appaltatore dovrà predisporre i disegni costruttivi che mostrino il tipo di derivazioni e collegamenti tra i canali e tra canali e le unità terminali. L'appaltatore dovrà predisporre i disegni costruttivi che mostrino il tipo di derivazioni e collegamenti tra i canali e tra canali e le unità terminali.

GENERAL NOTES:
- Drawing valid only for mechanical installations under contract.
- All measurements and locations of materials and equipment are to be verified on site by the contractor, who shall promptly report any interference with installations.
- Any undetected equipment shall be maintained. If necessary, it shall be modified and relocated by the contractor.
- The exact locations of equipment, materials, piping, ducts, and connections to existing systems shall be defined by the Contractor and submitted to the Works Supervisor (DL) for approval.
- Final sizing shall be carried out based on the manufacturer of the equipment and the materials actually installed.
- Contractor shall prepare all necessary construction detail drawings required for the correct execution of the works.
- The Contractor shall be responsible for the design and certification of all supports, executed in a workmanlike manner and in compliance with all applicable seismic regulations.
- The Contractor shall prepare all necessary construction detail drawings required for the correct execution of the works.
- Provide suitable flexible connections for all systems crossing the compartments.
- Provide suitable flexible connections for all systems crossing the compartments.
- Contractor shall provide all necessary supports, hangers, and anti-seismic bracing in accordance with best practice standards for acoustics and fire prevention.
- All works described and evaluated on the basis of the available documentation shall be reviewed and further developed during construction, following system verification based on the specified operating conditions and requirements.
- The Contractor shall carefully review the design and report any inaccuracies, omissions, or discrepancies with any applicable law or regulation.
- Connections between two or more duct sections, whether between ductwork and indoor units or between ducts themselves, shall be made exclusively using tapered fittings and not by simply inserting one duct into the next. Connections: The Contractor shall prepare construction drawings clearly indicating the type of branches and connections between ducts and between ducts and the specified indoor units.
- All bathroom and anteroom doors shall be undercut or raised above floor level to allow air transfer from circulation areas to the bathrooms.

NOTES - WATER SUPPLY AND DRAINAGE SYSTEMS:
- The supply pipes for sanitary fixtures within the restrooms shall be made of multilayer piping starting from the manifolds.
- Where the supply is not derived from a manifold, install recessed shut-off valves with protective caps for each water fixture.
- Provide a main shut-off valve for the building's water supply, installed in a visible and accessible location, to be agreed with the Works Supervisor (DL).
- All waste siphons shall be equipped with an inspectable trap at the lower, accessible point above the roof slab and adequately ventilated.
- Condensate collection networks shall be separate and independent from other drainage systems, with the interposition of a permanently water-filled trap or an inspectable dry anti-odor siphon.
- Grey water collection networks shall be separate and independent from other drainage systems, with the interposition of an inspectable trap.
- Rainwater drainage networks shall be separate and independent from black water systems up to the inspection manholes located upstream of the Inspection/Trap/X-branch assembly (including the latter).
- All drains located below the level of connection to the public sewer shall be connected into collection and lifting systems equipped with electric pumps.
- Provide inspection points on collectors upstream of every junction, bend, or special fitting.
- Provide inspection points on collectors upstream of every junction, bend, or special fitting.
- Pipes shall be installed with the minimum gradients, unless otherwise specified, shall have the following minimum slopes:
Foul drains to waste stacks: = 1%
Black water / grease collectors: = 1%
Rainwater / condensate collectors: = 0.5%

TYPICAL DIAGRAM OF CONNECTION BETWEEN COLLECTORS AT DIFFERENT LEVELS

TYPICAL DIAGRAM OF SECONDARY DRAIN CONNECTIONS TO THE MAIN COLLECTOR

TYPICAL DIAGRAM OF PRESSURIZED CONNECTION OF UPTRAP PUMPS TO THE DRAINAGE NETWORK

GENERAL NOTES:
- Drawing valid only for mechanical installations under contract.
- All measurements and locations of materials and equipment are to be verified on site by the contractor, who shall promptly report any interference with installations.
- Any undetected equipment shall be maintained. If necessary, it shall be modified and relocated by the contractor.
- The exact locations of equipment, materials, piping, ducts, and connections to existing systems shall be defined by the Contractor and submitted to the Works Supervisor (DL) for approval.
- Final sizing shall be carried out based on the manufacturer of the equipment and the materials actually installed.
- Contractor shall prepare all necessary construction detail drawings required for the correct execution of the works.
- The Contractor shall be responsible for the design and certification of all supports, executed in a workmanlike manner and in compliance with all applicable seismic regulations.
- The Contractor shall prepare all necessary construction detail drawings required for the correct execution of the works.
- Provide suitable flexible connections for all systems crossing the compartments.
- Provide suitable flexible connections for all systems crossing the compartments.
- Contractor shall provide all necessary supports, hangers, and anti-seismic bracing in accordance with best practice standards for acoustics and fire prevention.
- All works described and evaluated on the basis of the available documentation shall be reviewed and further developed during construction, following system verification based on the specified operating conditions and requirements.
- The Contractor shall carefully review the design and report any inaccuracies, omissions, or discrepancies with any applicable law or regulation.
- Connections between two or more duct sections, whether between ductwork and indoor units or between ducts themselves, shall be made exclusively using tapered fittings and not by simply inserting one duct into the next. Connections: The Contractor shall prepare construction drawings clearly indicating the type of branches and connections between ducts and between ducts and the specified indoor units.
- All bathroom and anteroom doors shall be undercut or raised above floor level to allow air transfer from circulation areas to the bathrooms.

REGIONE: Regione Lombardia
CITTÀ METROPOLITANA: Città Metropolitana di Milano
COMUNE: Comune di Sedriano

HSMXP1 - Campus Sedriano

Progetto per un nuovo Data Center in via Luigi Cadorni a Sedriano, MI, Italy

PROPONENTE: MISSION FALC SC SPV S.R.L.
PROPRIETÀ DELLE AREE: MISSION FALC SC SPV S.R.L.
ENGINEERING: HSCALE

PROGRAMMA: **Valutazione di impatto ambientale per l'installazione di gruppi elettrogeni di emergenza con potenza maggiore di 150 MWt**
D.Lgs 152/2006, Parte II
D.Lgs 152/2006, art. 5 Allegato II, alla parte seconda - progetti di competenza statale.

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Responsabile del progetto:
Dott. Giovanni Castelli

IDENTIFICATORE:

PROGETTO	FASE	CAMPO
HS MXP1 SDR	Progetto	Impianti meccanici
DISCIPLINA	TITOLO	
SA11.5	Progetto impianti meccanici nell esterno: Planimetria sistema di scarico acque nere e industriali	

NOTE:

REV.	DESCRIZIONE REVISIONE	DATA
00	Prima emissione	08 / 05 / 26
01		
02		
03		
04		
05		

TITOLO:
Progetto impianti meccanici nell esterno: Planimetria sistema di scarico acque nere e industriali

FORMATO: ISO 1 A0
SCALA: 1:200
DISEGNATO: LCM
CONTROLLATO: RZL
APPROVATO: LPI

NOME FILE: HSMXP1SDR_SA11.5